



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Margit Burmeister

Serial No.: 10/699,941

Group No.: 1645

Filed: 11/03/03

Examiner:

Entitled: Ataxia Associated Gene and Protein

CERTIFICATE RE: SEQUENCE LISTING

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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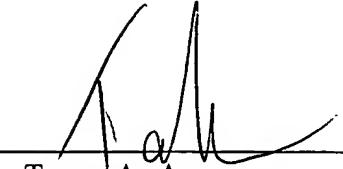
Dated: March 30, 2004

By: 
Susan M. McClintock

Sir or Madam:

I hereby state that the enclosed Sequence Listing is being submitted in paper copy and on a computer-readable diskette, and that the content of the paper and computer readable copies are the same.

Dated: March 30, 2004

By: 
Tanya A. Arenson
Registration No. 47,391

MEDLEN & CARROLL, LLP
101 Howard Street, Suite 350
San Francisco, California 94105
608/218-6900



SEQUENCE LISTING

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Glu Gln Glu His Arg Ile Asp Leu His Met Ile Arg Pro Tyr Met Lys
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Ser Val Lys Phe Ile Asn Lys Ile Gln Tyr Val His Ser Leu Glu Asp
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Ser Thr Leu Asn Leu Ser Gly Ala His Arg Lys Arg Lys Thr Leu Val
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Asp Ile Glu Thr Pro Asp Glu Thr Asp Ser Leu Glu Phe Leu Gly Asn
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Gly Asn Glu Leu Glu Trp Glu Asp Asp Thr Pro Val Ala Thr Ala Lys
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Asn Met Pro Gly Asp Ser Ala Asp Leu Phe Gly Asp Gly Ser Ala Glu
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Glu Gln Glu His Arg Ile Asp Leu His Met Ile Arg Pro Tyr Met Lys
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Val Val Thr His Gly Gly Tyr Tyr Gly Glu Gly Leu Asn Ala Ile Ile
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Tyr Ile Met Glu Asn Leu Phe Leu Tyr Val Ile Ser Ser Leu Lys Leu
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Leu Val Ala Glu Asp Tyr Met Ile Val Tyr Leu Asn Gly Ala Thr Pro
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Arg Arg Arg Met Pro Gly Ile Gly Trp Leu Lys Lys Cys Tyr His Met
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Ile Asp Arg Arg Leu Arg Lys Asn Leu Lys Ser Leu Ile Ile Val His
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Pro Ser Trp Phe Ile Arg Thr Val Leu Ala Ile Ser Arg Pro Phe Ile
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Ser Val Lys Phe Ile Ser Lys Ile Gln Tyr Val His Ser Leu Glu Glu
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Leu Glu Arg Leu Ile Pro Met Glu His Val Gln Leu Pro Asp Cys Val
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ggccaaaatg caatggaccc cgaccctcc tcgtaaaagg atgttgggtt tccctctggt 59700
gacacatggg atgcgtcata aaccctcccc caaagtccctg gtcagcagcc catccttcca 59760
acgatgagtt ttgcgggttt tcagaacaga aatgatcact acgattgacg acggtcgtga 59820
tgttaagacg tcgtctccat gagcttggg gggactttta tgtggaataa agaaactatc 59880
actg 59884

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 12
gagaacgtga ttgcctcat c

21

<210> 13
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 13
ggaggtgtga atcttatctt c

21

<210> 14
<211> 307
<212> PRT
<213> Homo sapiens

<400> 14

Met Gly Thr Thr Glu Ala Thr Leu Arg Met Glu Asn Val Asp Val Lys
1 5 10 15

Glu Glu Trp Gln Asp Glu Asp Leu Pro Arg Pro Leu Pro Glu Glu Thr
20 25 30

Gly Val Glu Leu Leu Gly Ser Pro Val Glu Asp Thr Ser Ser Pro Pro
35 40 45

Asn Thr Leu Asn Phe Asn Gly Ala His Arg Lys Arg Lys Thr Leu Val
50 55 60

Ala Pro Glu Ile Asn Ile Ser Leu Asp Gln Leu Asp Ile Asn Val Asp
65 70 75 80

Asp Ile Glu Thr Pro Asp Glu Thr Asp Ser Leu Glu Phe Leu Gly Asn
85 90 95

Gly Asn Glu Leu Glu Trp Glu Asp Asp Thr Pro Val Ala Thr Ala Lys
100 105 110

Asn Met Pro Gly Asp Ser Ala Asp Leu Phe Gly Asp Gly Thr Thr Glu
115 120 125

Asp Gly Ser Ala Ala Asn Gly Arg Leu Trp Arg Thr Val Ile Ile Gly
130 135 140

Glu Gln Glu His Gly Gly Tyr Tyr Gly Glu Gly Leu Asn Ala Ile Ile
145 150 155 160

Val Phe Ala Ala Cys Phe Leu Pro Asp Ser Ser Leu Pro Asp Tyr His
165 170 175

Tyr Ile Met Glu Asn Leu Phe Leu Tyr Val Ile Ser Ser Leu Glu Leu
180 185 190

Leu Val Ala Glu Asp Tyr Met Ile Val Tyr Leu Asn Gly Ala Thr Pro
195 200 205

Arg Arg Arg Met Pro Gly Ile Gly Trp Leu Lys Lys Cys Tyr Val His
210 215 220

Pro Ser Trp Phe Ile Arg Thr Val Leu Ala Ile Ser Arg Pro Phe Ile
225 230 235 240

Ser Val Lys Phe Ile Asn Lys Ile Gln Tyr Val His Ser Leu Glu Asp
245 250 255

Leu Glu Gln Leu Ile Pro Met Glu His Val Gln Ile Pro Asp Cys Val
260 265 270

Leu Gln Tyr Glu Glu Glu Arg Leu Lys Ala Arg Arg Glu Ser Ala Arg
275 280 285

Pro Gln Pro Glu Phe Val Leu Ala Leu Val Ser Glu Asp Gln Glu Thr
290 295 300

Ser Met Ser
305

<210> 15
 <211> 307
 <212> PRT
 <213> Macaca fascicularis

 <400> 15

 Met Gly Thr Thr Glu Ala Thr Leu Arg Met Glu Asn Val Asp Val Lys
 1 5 10 15

 Glu Glu Trp Gln Asp Glu Asp Leu Pro Arg Pro Leu Pro Glu Glu Thr
 20 25 30

 Gly Val Glu Leu Leu Gly Ser Pro Val Glu Asp Thr Ser Ser Pro Pro
 35 40 45

 Asn Thr Leu Asn Phe Asn Gly Ala His Arg Lys Arg Lys Thr Leu Val
 50 55 60

 Ala Pro Asp Ile Asn Ile Ser Leu Asp Gln Leu Asp Ile Asn Val Asp
 65 70 75 80

 Asp Ile Glu Thr Pro Asp Glu Thr Asp Ser Leu Glu Phe Leu Gly Asn
 85 90 95

 Gly Asn Glu Leu Glu Trp Gly Asp Asp Thr Pro Val Ala Thr Ala Lys
 100 105 110

 Asn Met Pro Gly Asp Ser Ala Asp Leu Phe Gly Asp Gly Thr Thr Glu
 115 120 125

 Asp Gly Ser Ala Ala Asn Gly Arg Leu Trp Arg Thr Val Ile Ile Gly
 130 135 140

 Glu Gln Glu His Gly Gly Tyr Tyr Gly Glu Gly Leu Asn Ala Ile Ile
 145 150 155 160

 Val Phe Ala Ala Cys Phe Leu Pro Asp Ser Ser Leu Pro Asp Tyr His
 165 170 175

 Tyr Ile Met Glu Asn Leu Phe Leu Tyr Val Ile Ser Ser Leu Glu Leu
 180 185 190

 Leu Val Ala Glu Asp Tyr Met Ile Val Tyr Leu Asn Gly Ala Thr Pro
 195 200 205

 Arg Arg Arg Met Pro Gly Ile Gly Trp Leu Lys Lys Cys Tyr Val His
 210 215 220

Pro Ser Trp Phe Ile Arg Thr Val Leu Ala Ile Ser Arg Pro Phe Ile
225 230 235 240

Ser Val Lys Phe Ile Asn Lys Ile Gln Tyr Val His Ser Leu Glu Asp
245 250 255

Leu Glu Gln Leu Ile Pro Met Glu His Val Gln Ile Pro Asp Cys Val
260 265 270

Leu Gln Tyr Glu Glu Glu Arg Leu Lys Ala Arg Arg Glu Ser Ala Arg
275 280 285

Pro Gln Pro Glu Phe Val Met Ala Pro Val Thr Glu Asp Gln Glu Thr
290 295 300

Ser Met Ser
305

<210> 16
<211> 308
<212> PRT
<213> Mus musculus

<400> 16

Met Gly Thr Thr Glu Ala Thr Leu Arg Met Glu Asn Val Asp Val Arg
1 5 10 15

Asp Glu Trp Gln Asp Glu Asp Leu Pro Arg Pro Leu Pro Glu Asp Thr
20 25 30

Gly Val Glu Arg Leu Gly Gly Ala Val Glu Asp Ser Ser Ser Pro Pro
35 40 45

Ser Thr Leu Asn Leu Ser Gly Ala His Arg Lys Arg Lys Thr Leu Val
50 55 60

Ala Pro Glu Ile Asn Ile Ser Leu Asp Gln Leu Asp Ile Asn Val Asp
65 70 75 80

Asp Ile Glu Thr Pro Asp Glu Thr Asp Ser Leu Glu Phe Leu Gly Asn
85 90 95

Gly Asn Glu Leu Glu Trp Glu Asp Asp Thr Pro Val Ala Thr Ala Lys
100 105 110

Asn Met Pro Gly Asp Ser Ala Asp Leu Phe Gly Asp Gly Ser Ala Glu
115 120 125

Asp Gly Ser Ala Ala Asn Gly Arg Leu Trp Arg Thr Val Ile Ile Gly
 130 135 140

Glu Gln Glu His Gly Gly Tyr Tyr Gly Glu Gly Leu Asn Ala Ile Ile
 145 150 155 160

Val Phe Ala Ala Cys Phe Leu Pro Asp Ser Ser Ser Pro Asp Tyr His
 165 170 175

Tyr Ile Met Glu Asn Leu Phe Leu Tyr Val Ile Ser Ser Leu Glu Leu
 180 185 190

Leu Val Ala Glu Asp Tyr Met Ile Val Tyr Leu Asn Gly Ala Thr Pro
 195 200 205

Arg Arg Arg Met Pro Gly Ile Gly Trp Leu Lys Lys Cys Tyr Val His
 210 215 220

Pro Ser Trp Phe Ile Arg Thr Val Leu Ala Ile Ser Arg Pro Phe Ile
 225 230 235 240

Ser Val Lys Phe Ile Ser Lys Ile Gln Tyr Val His Ser Leu Glu Glu
 245 250 255

Leu Glu Arg Leu Ile Pro Met Glu His Val Gln Leu Pro Asp Cys Val
 260 265 270

Leu Gln Tyr Glu Glu Gln Arg Leu Arg Ala Lys Arg Glu Ser Thr Arg
 275 280 285

Pro Pro Gln Pro Glu Phe Leu Leu Ala Glu Ala Thr Glu Asp Gln Glu
 290 295 300

Thr Ser Met Ser
 305

<210> 17
 <211> 263
 <212> PRT
 <213> Homo sapiens

<400> 17

Glu Asp Val Gly Met Asp Ile Pro Phe Glu Glu Gly Val Leu Ser Pro
 1 5 10 15

Ser Ala Ala Asp Met Arg Pro Glu Pro Pro Asn Ser Leu Asp Leu Asn
 20 25 30

Asp	Thr	His	Pro	Arg	Arg	Ile	Lys	Leu	Thr	Ala	Pro	Asn	Ile	Asn	Leu
35							40						45		
Ser	Leu	Asp	Gln	Ile	Asp	Ile	Asn	Val	Asp	Glu	Leu	Asp	Thr	Pro	Asp
50						55					60				
Glu	Ala	Asp	Ser	Phe	Glu	Tyr	Thr	Gly	His	Glu	Asp	Pro	Thr	Ala	Asn
65				70				75					80		
Lys	Asp	Ser	Gly	Gln	Glu	Ser	Glu	Ser	Ile	Pro	Glu	Tyr	Thr	Ala	Glu
			85				90					95			
Glu	Glu	Arg	Glu	Asp	Asn	Arg	Leu	Trp	Arg	Thr	Val	Val	Ile	Gly	Glu
		100				105						110			
Gln	Glu	Gln	Gly	Gly	Tyr	Tyr	Gly	Asp	Gly	Leu	Asn	Ala	Ile	Ile	Val
		115				120					125				
Phe	Ala	Ala	Cys	Phe	Leu	Pro	Asp	Ser	Ser	Arg	Ala	Asp	Tyr	His	Tyr
		130				135				140					
Val	Met	Glu	Asn	Leu	Phe	Leu	Tyr	Val	Ile	Ser	Thr	Leu	Glu	Leu	Met
	145				150					155			160		
Val	Ala	Glu	Asp	Tyr	Met	Ile	Val	Tyr	Leu	Asn	Gly	Ala	Thr	Pro	Arg
		165				170				175					
Arg	Arg	Met	Pro	Gly	Leu	Gly	Trp	Met	Lys	Lys	Cys	Tyr	Val	His	Pro
		180				185				190					
Ser	Trp	Phe	Ile	Arg	Thr	Ile	Leu	Ala	Val	Thr	Arg	Pro	Phe	Ile	Ser
			195				200			205					
Ser	Lys	Phe	Ser	Ser	Lys	Ile	Lys	Tyr	Val	Asn	Ser	Leu	Ser	Glu	Leu
		210				215				220					
Ser	Gly	Leu	Ile	Pro	Met	Asp	Cys	Ile	His	Ile	Pro	Glu	Ser	Ile	Ile
	225				230				235			240			
Lys	Leu	Asp	Glu	Glu	Leu	Arg	Glu	Ala	Ser	Glu	Ala	Ala	Lys	Thr	Ser
			245				250				255				
Cys	Leu	Tyr	Asn	Asp	Pro	Glu									
			260												

<210> 18
<211> 259
<212> PRT
<213> Mus musculus

<400> 18

Met Asp Ile His Phe Glu Glu Gly Val Leu Ser Pro Ser Ala Ala Asp
1 5 10 15

Met Arg Pro Glu Pro Pro Asn Ser Leu Asp Leu Asn Gly Ser His Pro
20 25 30

Arg Arg Ile Lys Leu Thr Ala Pro Asn Ile Asn Leu Ser Leu Asp Gln
35 40 45

Ile Asp Ile Asn Val Asp Glu Leu Asp Thr Pro Asp Glu Ala Asp Ser
50 55 60

Phe Glu Tyr Thr Asn His Glu Asp Pro Thr Ala Asn Lys Ser Ser Gly
65 70 75 80

Gln Glu Ser Glu Ser Ile Pro Glu Tyr Thr Ala Glu Glu Glu Arg Glu
85 90 95

Asp Asn Arg Leu Trp Arg Thr Val Val Ile Gly Glu Gln Gln Gly
100 105 110

Gly Tyr Tyr Gly Asp Gly Leu Asn Ala Ile Ile Val Phe Ala Ala Cys
115 120 125

Phe Leu Pro Asp Ser Ser Arg Ala Asp Tyr His Tyr Val Met Glu Asn
130 135 140

Leu Phe Leu Tyr Val Ile Ser Thr Leu Glu Leu Met Val Ala Glu Asp
145 150 155 160

Tyr Met Ile Val Tyr Leu Asn Gly Ala Thr Pro Arg Arg Arg Met Pro
165 170 175

Gly Leu Gly Trp Met Lys Lys Cys Tyr Val His Pro Ser Trp Phe Ile
180 185 190

Arg Thr Ile Leu Ala Val Thr Arg Pro Phe Ile Ser Ser Lys Phe Ser
195 200 205

Ser Lys Ile Lys Tyr Val Thr Ser Leu Ser Glu Leu Ser Gly Leu Ile
210 215 220

Pro Met Asp Cys Ile His Ile Pro Glu Ser Ile Ile Lys Leu Asp Glu
225 230 235 240

Glu Leu Arg Glu Ala Ser Glu Ala Ala Lys Thr Ser Cys Leu Tyr Asn
245 250 255

Asp Pro Glu

<210> 19
<211> 263
<212> PRT
<213> Homo sapiens

<400> 19

Met Glu Gly Val Glu Leu Lys Glu Glu Trp Gln Asp Glu Asp Phe Pro
1 5 10 15

Ile Pro Leu Pro Glu Asp Asp Ser Ile Glu Ala Asp Ile Leu Ala Ile
20 25 30

Thr Gly Pro Glu Asp Gln Pro Gly Ser Leu Glu Val Asn Gly Asn Lys
35 40 45

Val Arg Lys Lys Leu Met Ala Pro Asp Ile Ser Leu Thr Leu Asp Pro
50 55 60

Gly Glu Ile Asp Leu Asp Gly Leu Asp Thr Pro Ser Glu Asn Ser Asn
65 70 75 80

Glu Phe Glu Trp Glu Asp Asp Leu Pro Lys Pro Lys Thr Thr Glu Val
85 90 95

Ile Arg Lys Gly Ser Ile Thr Glu Tyr Thr Ala Ala Glu Glu Lys Glu
100 105 110

Asp Gly Arg Arg Trp Arg Met Phe Arg Ile Gly Glu Gln Asp His Gly
115 120 125

Gly Tyr Tyr Gly Asp Gly Leu Asn Ala Ile Val Val Phe Ala Val Cys
130 135 140

Phe Met Pro Glu Ser Ser Gln Pro Asn Tyr Arg Tyr Leu Met Asp Asn
145 150 155 160

Leu Phe Lys Tyr Val Ile Gly Thr Leu Glu Leu Leu Val Ala Glu Asn
165 170 175

Tyr	Met	Ile	Val	Tyr	Leu	Asn	Gly	Ala	Thr	Thr	Arg	Arg	Lys	Met	Pro
				180					185				190		
Ser	Leu	Gly	Trp	Leu	Arg	Lys	Cys	Tyr	Val	His	Pro	Ser	Trp	Phe	Ile
				195			200				205				
Arg	Thr	Leu	Leu	Ala	Val	Thr	Arg	Pro	Phe	Ile	Ser	Ser	Lys	Phe	Ser
				210		215				220					
Gln	Lys	Ile	Arg	Tyr	Val	Phe	Asn	Leu	Ala	Glu	Leu	Ala	Glu	Leu	Val
				225		230			235				240		
Pro	Met	Glu	Tyr	Val	Gly	Ile	Pro	Glu	Cys	Ile	Lys	Gln	Val	Gln	Glu
				245			250				255				
Leu	Asn	Gly	Lys	Gln	Asp	Glu									
				260											
<210>	20														
<211>	274														
<212>	PRT														
<213>	Mus musculus														
<400>	20														
Met	Glu	Gly	Val	Glu	Leu	Lys	Glu	Glu	Trp	Gln	Asp	Glu	Asp	Phe	Pro
1				5				10				15			
Ile	Pro	Leu	Pro	Glu	Asp	Asp	Ser	Ile	Glu	Ala	Asp	Thr	Leu	Asp	Gly
				20				25			30				
Thr	Asp	Pro	Asp	Arg	Gln	Pro	Gly	Ser	Leu	Glu	Val	Asn	Gly	Asn	Lys
				35			40				45				
Val	Arg	Lys	Lys	Leu	Met	Ala	Pro	Asp	Ile	Ser	Leu	Thr	Leu	Asp	Pro
				50		55			60						
Gly	Glu	Val	Asp	Leu	Glu	Gly	Leu	Asp	Thr	Pro	Ser	Glu	Asn	Ser	Asp
				65		70			75			80			
Glu	Phe	Glu	Trp	Glu	Asp	Asp	Leu	Pro	Lys	Pro	Lys	Thr	Thr	Glu	Val
				85			90					95			
Ile	Arg	Lys	Gly	Ser	Ile	Thr	Glu	Tyr	Thr	Ala	Thr	Glu	Glu	Lys	Gly
				100			105			110					
Asp	Gly	Arg	Arg	Trp	Arg	Met	Phe	Arg	Ile	Gly	Glu	Gln	Asp	His	Gly
				115			120				125				

Gly Tyr Tyr Gly Asp Gly Leu Asn Ala Ile Val Val Phe Ala Val Cys
130 135 140

Phe Met Pro Glu Ser Gly Gln Pro Asn Tyr Arg Tyr Leu Met Asp Asn
145 150 155 160

Leu Phe Lys Tyr Val Ile Gly Thr Leu Glu Leu Leu Val Ala Glu Asn
165 170 175

Tyr Met Ile Ile Tyr Leu Asn Gly Ala Thr Thr Arg Arg Lys Met Pro
180 185 190

Ser Leu Gly Trp Leu Arg Arg Cys Tyr Val His Pro Ser Trp Phe Ile
195 200 205

Arg Thr Leu Leu Ala Val Thr Arg Pro Phe Ile Ser Ser Lys Phe Ser
210 215 220

Gln Lys Ile Arg Tyr Val Phe Asn Leu Ala Glu Leu Ala Glu Leu Val
225 230 235 240

Pro Met Glu Tyr Val Gly Ile Pro Glu Cys Ile Lys Gln Tyr Glu Glu
245 250 255

Glu Lys Phe Lys Lys Arg Val Asp Gln Glu Pro Leu Asn Gly Lys Gln
260 265 270

Glu Pro

<210> 21
<211> 153
<212> PRT
<213> Drosophila melanogaster

<400> 21

Tyr Thr Ala Ala Glu Glu Arg Arg Asp Ser Arg Asn Trp Gln Lys Ile
1 5 10 15

Thr Leu Pro Asp Gly Arg Thr Gly Gly Tyr Gly Gln Asn Ala Ile
20 25 30

Val Ile Phe Cys Ala Cys His Leu Pro Asp Arg Ser Arg Ala Arg Tyr
35 40 45

Ser Tyr Val Met Asp Asn Leu Phe Leu Tyr Val Val Lys Thr Leu Glu
50 55 60

Gln Leu Val Thr Asp Asp Tyr Val Leu Ile Tyr Leu His Gly Gly Ser
65 70 75 80

Asn Arg Arg Asn Val Pro Pro Phe Pro Trp Leu Lys Arg Cys Tyr Val
85 90 95

His Pro Thr Phe Trp Ile Lys Ser Leu Val Trp Met Ala Arg Pro Phe
100 105 110

Val Ser Thr Lys Phe Trp Arg Lys Leu Val Tyr Val Lys Ser Leu Glu
115 120 125

Glu Leu Gly Met His Val Val Val Glu Lys Ala Ala Ile Pro Glu Lys
130 135 140

Val Lys Gln Tyr Asp Ala Lys Arg His
145 150

<210> 22
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 22
ccagctctca tgg

13

<210> 23
<211> 13
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 23
gccgccccca ugg

13

<210> 24
<211> 70
<212> PRT
<213> Mus musculus

<400> 24

Pro Ser Ser Asp Ala Glu Ser Ala Pro Ala Ser Ile Leu Phe Leu Leu
1 5 10 15

Gly Ser Glu Gly Pro Gly Ser Val Ser Asp Ala Gln Leu His Pro Gly
20 25 30

Arg Ala Arg Leu Cys Leu Pro Val Arg Arg Arg Gly Cys Leu Ser Cys
35 40 45

Arg Gly Val Ile Pro Ala Ser Ser Gln Cys Leu Phe Pro Ala Pro Met
50 55 60

Gly Thr Thr Glu Ala Thr
65 70

<210> 25
<211> 55
<212> PRT
<213> Homo sapiens

<400> 25

Ala Ser Phe His Gln Ala Pro Arg Leu Gly Thr Ile Glu Lys Cys Pro
1 5 10 15

Pro Leu Cys Pro Ser Asp Ser Ala Glu Ala Ala Ser Ala Thr Glu Ile
20 25 30

Ile Phe Trp Val Thr Arg Val Ser Arg Pro Leu Leu Phe Pro Ala Leu
35 40 45

Met Gly Thr Thr Glu Ala Thr
50 55

<210> 26
<211> 314
<212> PRT
<213> Homo sapiens

<400> 26

Met Glu Gly Val Glu Leu Lys Glu Glu Trp Gln Asp Glu Asp Phe Pro
1 5 10 15

Ile Pro Leu Pro Glu Asp Asp Ser Ile Glu Ala Asp Ile Leu Ala Ile
20 25 30

Thr Gly Pro Glu Asp Gln Pro Gly Ser Leu Glu Val Asn Gly Asn Lys
35 40 45

Val Arg Lys Lys Leu Met Ala Pro Asp Ile Ser Leu Thr Leu Asp Pro
50 55 60

Ser Asp Gly Ser Val Leu Ser Asp Asp Leu Asp Glu Ser Gly Glu Ile
65 70 75 80

Asp Leu Asp Gly Leu Asp Thr Pro Ser Glu Asn Ser Asn Glu Phe Glu
85 90 95

Trp Glu Asp Asp Leu Pro Lys Pro Lys Thr Thr Glu Val Ile Arg Lys
100 105 110

Gly Ser Ile Thr Glu Tyr Thr Ala Ala Glu Glu Lys Glu Asp Gly Arg
115 120 125

Arg Trp Arg Met Phe Arg Ile Gly Glu Gln Asp His Arg Val Asp Met
130 135 140

Lys Ala Ile Glu Pro Tyr Lys Lys Val Ile Ser His Gly Gly Tyr Tyr
145 150 155 160

Gly Asp Gly Leu Asn Ala Ile Val Val Phe Ala Val Cys Phe Met Pro
165 170 175

Glu Ser Ser Gln Pro Asn Tyr Arg Tyr Leu Met Asp Asn Leu Phe Lys
180 185 190

Tyr Val Ile Gly Thr Leu Glu Leu Leu Val Ala Glu Asn Tyr Met Ile
195 200 205

Val Tyr Leu Asn Gly Ala Thr Thr Arg Arg Lys Met Pro Ser Leu Gly
210 215 220

Trp Leu Arg Lys Cys Tyr Gln Gln Ile Asp Arg Arg Leu Arg Lys Asn
225 230 235 240

Leu Lys Ser Leu Ile Ile Val His Pro Ser Trp Phe Ile Arg Thr Leu
245 250 255

Leu Ala Val Thr Arg Pro Phe Ile Ser Ser Lys Phe Ser Gln Lys Ile
260 265 270

Arg Tyr Val Phe Asn Leu Ala Glu Leu Ala Glu Leu Val Pro Met Glu
275 280 285

Tyr Val Gly Ile Pro Glu Cys Ile Lys Gln Val Asp Gln Glu Leu Asn
290 295 300

Gly Lys Gln Asp Glu Pro Lys Asn Glu Gln
305 310

<210> 27
<211> 314
<212> PRT
<213> Mus musculus

<400> 27

Met Glu Gly Val Glu Leu Lys Glu Glu Trp Gln Asp Glu Asp Phe Pro
1 5 10 15

Ile Pro Leu Pro Glu Asp Asp Ser Ile Glu Ala Asp Ile Leu Ala Ile
20 25 30

Thr Gly Pro Glu Asp Gln Pro Gly Ser Leu Glu Val Asn Gly Asn Lys
35 40 45

Val Arg Lys Lys Leu Met Ala Pro Asp Ile Ser Leu Thr Leu Asp Pro
50 55 60

Ser Asp Gly Ser Val Leu Ser Asp Asp Leu Asp Glu Ser Gly Glu Ile
65 70 75 80

Asp Leu Asp Gly Leu Asp Thr Pro Ser Glu Asn Ser Asn Glu Phe Glu
85 90 95

Trp Glu Asp Asp Leu Pro Lys Pro Lys Thr Thr Glu Val Ile Arg Lys
100 105 110

Gly Ser Ile Thr Glu Tyr Thr Ala Ala Glu Glu Lys Glu Asp Gly Arg
115 120 125

Arg Trp Arg Met Phe Arg Ile Gly Glu Gln Asp His Arg Val Asp Met
130 135 140

Lys Ala Ile Glu Pro Tyr Lys Lys Val Ile Ser His Gly Gly Tyr Tyr
145 150 155 160

Gly Asp Gly Leu Asn Ala Ile Val Val Phe Ala Val Cys Phe Met Pro
165 170 175

Glu Ser Ser Gln Pro Asn Tyr Arg Tyr Leu Met Asp Asn Leu Phe Lys
180 185 190

Tyr Val Ile Gly Thr Leu Glu Leu Leu Val Ala Glu Asn Tyr Met Ile
195 200 205

Val Tyr Leu Asn Gly Ala Thr Thr Arg Arg Lys Met Pro Ser Leu Gly
210 215 220

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Leu Ala Val Thr Arg Pro Phe Ile Ser Ser Lys Phe Ser Gln Lys Ile
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